

# CONTENTS

## Volume 5—Year 1976

### Number 1—Winter 1976

Editor's Corner		i
The NBER/NSF Model Comparison	Gary Fromm and	1
Seminar An Analysis of Results	Lawrence R. Klein	
Cyclical Impacts on the Personal	Charles Beach	29
Distribution of Income		
FIML Estimation of Rational	Kent D. Wall	53
Distributed Lag Structural Form		
Models		
Second Order Approximations for	Vittorio Corbo	65
Estimating Production Functions		
Maximum Likelihood Estimation of	Denise Osborn	75
Moving Average Processes		
Interpreting Spectral Analyses in	Robert F. Engle	89
Terms of Time Domain Models		
Real Value Added and the Measurement	Stefano Fenoaltea	111
of Industrial Production		
<i>Programming Software Notes</i>		
Information Systems for Public	William D. Haseman and	139
Sector Management	Andrew B. Whinston	
The Estimation of Dynamic Economic	Neil W. Henry, John F.	153
Relations from a Time Series of	McDonald, and Houston H.	
Cross Sections	Stokes	
<i>Research Methodology Notes</i>		
A Data Base Improvement for Analysis	Sung Y. Kwack	157
of U.S. Imports and Exports: Price		
Indices by End-Use, 1958: 1-1974:4		
Criteria for Evaluation of Econometric	W. A. Jayatissa	161
Models: A Correction		
Reply	Saul H. Hymans	161
<i>Computer Center Notes</i>		163
<i>Announcements</i>		165

### Number 2—Spring 1976

#### Special Issue on Control Theory Applications: Macroeconomics

Introduction	David A. Kendrick and	i
	Edison Tse	

Applications of Control Theory to Macroecoromics	David A. Kendrick	171
Optimal Macroeconomic Control Policies	Roger Craine, Arthur Havener and Peter Tinsley	191
Use of the Linear Quadratic Approach to Study the Dynamic Policy responses of a Nonlinear Model of the French Economy	B. A. Oudet	205
Neighboring Stochastic Control of an Econometric Model	Peter Walsh and J. B. Cruz, Jr.	211
A Note on Uncertainties in Control Applications	Benjamin Friedman	223
Uncertainty and Optimal Policy Intensity in Fiscal and Incomes Policies	Franklin R. Shupp	225
The Cost of Conflicting Objectives in Policy Formulation	Robert S. Pindyck	239
Decentralized Stabilization Policies: Optimization and the Assignment Problem	Finn Kydland	249
<i>Computer Research Center Notes</i>		263
<i>Announcement</i>		265

### Number 3—Summer 1976

#### Control Theory Applications . . . Microeconomics

Introduction	David A. Kendrick and Edison Tse	i
Stochastic Models of Price Adjustment	Steven Barta and Pravin Varaiya	267
Competitive Analysis of the Arms Race	D. D. Šiljak	283
An Approach to the Feedback Control of Nonlinear Econometric Systems	Gregory C. Chow	297
First Order Dual Control	Alfred L. Norman	311
Caution, Probing and the Value of Information in the Control of Uncertain Systems	Yaakov Bar-Shalom and Edison Tse	323
Methods of Efficient Parameter Estimation in Control Problems	John B. Taylor	339

Number 4—Autumn 1976

Special Issue on Discrete, Qualitative and Limited Dependent Variables

Introduction	James R. Heckman
Quantal Choice Analysis: A Survey	Daniel McFadden
An Empirical Analysis of Factors which Influence College-Going Behavior	Meir G. Kohn, Charles F. Manski, and David S. Mundel
The Evaluation of Results from Truncated Samples: The New Jersey Income Maintenance Experiment	Jerry A. Hausman and David A. Wise
Some Methodological Issues in the Analysis of Longitudinal Surveys	Burton Singer and Seymore Spilerman
The Common Structure of Statistical Models of Truncation, Sample Selection, and Limited Dependent Variables and a Simple Estimator for Such Models	James R. Heckman
On a General Computer Algorithm for the Analysis of Models with Limited Dependent Variables	Forrest D. Nelson
A Comment on Discriminant Analysis "versus" Logit Analysis	Daniel McFadden
Recursive Models with Qualitative Endogenous Variables	G. S. Maddala and Lung-Fei Lee
Numerical Aspects of Multivariate Normal Probabilities in Econometric Models	J. E. Dutt



## AUTHORS' INDEX

### Volume 5—Year 1976

- Bar-Shalom, Yaakov and Tse, Edison.* Caution, Probing and the Value of Information in the Control of Uncertain Systems, 323.
- Barta, Steven and Varaiya, Pravin.* Stochastic Models of Price Adjustment, 267.
- Beach, Charles.* Cyclical Impacts on the Personal Distribution of Income, 29.
- Chow, Gregory C.* An Approach to the Feedback Control of Nonlinear Econometric Systems, 297.
- Corbo, Vittorio.* Second Order Approximations for Estimating Production Functions, 65.
- Craine, Roger, Havenner, Arthur and Tinsley, Peter.* Optimal Macroeconomic Control Policies, 191.
- Cruz, J. B. Jr.* See under Walsh, Peter.
- Dutt, J. E.* Numerical Aspects of Multivariate Normal Probabilities in Econometric Models.
- Engle, Robert F.* Interpreting Spectral Analyses in Terms of Time Domain Models, 89.
- Faden, Arnold M. and Rausser, Gordon C.* Econometric Policy Model Construction: The Post-Bayesian Approach, 349.
- Fenoaltea, Stefano.* Real Value Added and the Measurement of Industrial Production, 111.
- Friedman, Benjamin.* A Note on Uncertainties in Control Applications, 223.
- Fromm, Gary and Klein, Lawrence R.* The NBER/NSF Model Comparison Seminar: An Analysis of Results, 1.
- Haseman, William D. and Whinston, Andrew B.* Information Systems for Public Sector Management, 139.
- Hausman, Jerry A. and Wise, David A.* The Evaluation of Results from Truncated Samples: The New Jersey Income Maintenance Experiment.
- Havenner, Arthur.* See under Craine, Roger.
- Heckman, James R.* Introduction.
- Heckman, James R.* The Common Structure of Statistical Models of Truncation, Sample Selection, and Limited Dependent Variables and a Simple Estimator of Dynamic Economic Relations from a Time Series of Cross Sections, 153.
- Hymans, Saul H.* Reply, 161.
- Jayatissa, W. A.* Criteria for Evaluation of Econometric Models: A Correction, 161.
- Kendrick, David A.* Applications of Control Theory to Macroeconomics, 171.
- Kendrick, David A. and Tse, Edison.* Introduction, i.
- Klein, Lawrence R.* See under Fromm, Gary.
- Kohn, Meir G., Manski, Charles F. and Mundel, David S.* An Empirical Analysis of Factors which Influence College-Going Behavior.
- Kwack, Sung Y.* A Data Base Improvement for Analysis of U.S. Imports and Exports: Price Indices by End-Use, 1958:1-1974:4, 157.

- Kydland, Finn.* Decentralized Stabilization Policies: Optimization and the Assignment Problem, 249.
- Lee, Lung-Fei.* See under Maddala, G. S.
- Maddala, G. S. and Lee, Lung-Fei.* Recursive Models with Qualitative Endogenous Variables.
- Manski, Charles F.* See under Kohn, Meir G.
- McDonald, John F.* See under Henry, Neil W.
- McFadden, Daniel.* Quantal Choice Analysis: A Survey.
- McFadden, Daniel.* A Comment on Discriminant Analysis "Versus" Logit Analysis.
- Mundel, David S.* See under Kohn, Meir G.
- Nelson, Forrest, D.* On a General Computer Algorithm for the Analysis of Models with Limited Dependent Variables.
- Norman, Alfred L.* First Order Dual control, 311.
- Osborn, Denise.* Maximum Likelihood Estimation of Moving Average Processes, 75.
- Oudet, B. A.* Use of the Linear Quadratic Approach to Study the Dynamic Policy Responses of a Nonlinear model of the French Economy, 205.
- Pindyck, Robert S.* The Cost of Conflicting Objectives in Policy Formulation, 239.
- Rausser, Gordon C.* See under Faden, Arnold M.
- Shupp, Franklin R.* Uncertainty and Optimal Policy Intensity in Fiscal and Incomes Policies, 225.
- Siljak, D. D.* Competitive Analysis of the Arms Race, 283.
- Singer, Burton and Spilerman, Seymore* Some Methodological Issues in the Analysis of Longitudinal Surveys.
- Spilerman, Seymore.* See under Singer, Burton.
- Stokes, Houston H.* See under Henry, Neil W.
- Taylor, John B.* Methods of Efficient Parameter Estimation in Control Problems, 339.
- Tinsley, Peter.* See under Craine, Roger.
- Tse, Edison.* See under Bar-Shalom, Yaakov and Kendrick, David.
- Varaiya, Pravin.* See under Barta, Steven.
- Wall, Kent D.* FIML Estimation of Rational Distributed Lag Structural Form Models, 53.
- Walsh, Peter and Cruz, J. B. Jr.* Neighboring Stochastic Control of an Econometric Model, 211.
- Whinston, Andrew B.* See under Haseman, William D.
- Wise, David A.* See under Hausman, Jerry A.



